

Translation

PATENT COOPERATION TREATY

PCT/JP2003/017050



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P04697300	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/017050	International filing date (day/month/year) 26 December 2003 (26.12.2003)	Priority date (day/month/year) 27 December 2002 (27.12.2002)
International Patent Classification (IPC) or national classification and IPC A61K 31/196, 31/198, 31/375, 9/08, 9/20, 7/00, 7/48, A61P 17/00		
Applicant DAIICHI PHARMACEUTICAL CO., LTD.		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 7 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
  - ☐ (sent to the applicant and to the International Bureau) a total of \_\_\_\_\_ sheets, as follows:
    - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - ☐ (sent to the International Bureau only) a total of \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
- This report contains indications relating to the following items:
 

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input checked="" type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 07 April 2004 (07.04.2004)	Date of completion of this report 04 August 2004 (04.08.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ The international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

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## Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application.

☒ claims Nos. 12-15

because:

☒ the said international application, or the said claims Nos. 12-15  
relate to the following subject matter which does not require an international preliminary examination (*specify*):

**See supplemental sheet**

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. \_\_\_\_\_  
are so unclear that no meaningful opinion could be formed (*specify*):

☐ the claims, or said claims Nos. \_\_\_\_\_ are so inadequately supported  
by the description that no meaningful opinion could be formed.

☒ no international search report has been established for said claims Nos. 12-15

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the  
Administrative Instructions in that:

the written form

☐ has not been furnished

☐ does not comply with the standard

the computer readable form

☐ has not been furnished

☐ does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with  
the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ see Supplemental Box for further details.

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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III. 1.

Claims 12 to 15 pertain to a method of treatment of  
the human body by therapy.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims		YES
	Claims	1-11	NO
Inventive step (IS)	Claims		YES
	Claims	1-11	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

## 2. Citations and explanations

Document 1: CA 2086565 A (S.S. Pharmaceutical Co., Ltd.), 1 July 1994

Document 2: JP 2000-53529 A (Shiseido Co., Ltd.), 22 February 2000

Document 3: JP 11-92326 A (Shiseido Co., Ltd.), 6 April 1999

Document 4: JP 6-80564 A (Meiji Seika Kaisha, Ltd.), 22 March 1994

Document 5: JP 54-138130 A (Yugen Kaisha Kiguchi), 26 October 1979

[1] The inventions set forth in claims 1 to 11 lack novelty in the light of documents 1 to 3 cited in the international search report.

Document 1 discloses an orally administered therapeutic agent for treating pigmentation which contains tranexamic acid and ascorbic acid as active ingredients. In addition, document 1 (page 1, lines 14 and 15) also states that L-cysteine is conventionally used as an orally administered therapeutic agent for treating pigmentation, and thus, a therapeutic agent for treating pigmentation which contains tranexamic acid, L-cysteine, and ascorbic acid as active ingredients can be said to be disclosed in document 1.

Thus, the inventions set forth in the present claims 1 to 11 lack novelty in the light of document 1.

Similarly, documents 2 and 3 can be said to disclose topically administered therapeutic agents for treating pigmentation which contain tranexamic acid, L-cysteine, and ascorbic acid as active ingredients (document 2, claims and paragraph [0002]; document 3, claim 1 and paragraph [0003]).

Thus, the inventions set forth in the present claims 1 to 10 lack novelty in the light of documents 2 and 3.

[2] The inventions set forth in claims 1 to 11 do not involve an inventive step in the light of documents 4 and 5 cited in the international search report.

Document 4 discloses an orally administered therapeutic agent for treating pigmentation which has tranexamic acid and ascorbic acid as active ingredients, and although document 4 does not make any disclosures which pertain to L-cysteine, document 5 indicates that L-cysteine can be administered orally and that it is effective in the treatment of pigmentation. Thus, a person skilled in the art could easily conceive of mixing L-cysteine into the therapeutic agent for treating pigmentation disclosed in document 4.

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1, 2, 5, and 6 include as active ingredients "derivatives [thereof]," which encompasses an extremely large number of compounds. However, only a very small portion of the claimed compounds is disclosed in the sense of PCT Article 5, and these compounds are not fully supported in the sense of PCT Article 6.